

## PATENT ABSTRACTS OF JAPAN

115

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(71)Applicant : CASIO COMPUT CO LTD

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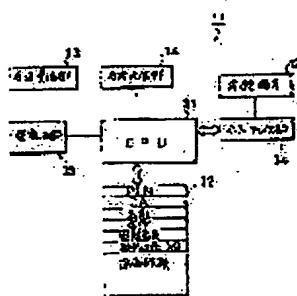
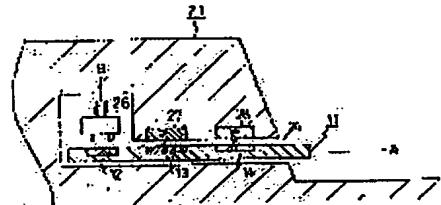
(72)Inventor : SUZUKI HIDEO

## 4) READING AND WRITING SYSTEM FOR IC CARD

## 7)Abstract:

URPOSE: To eliminate adverse influence exerted owing to imperfection of connection between an IC card and a card terminal by providing the IC card itself with a function which outputs an oscillating wave and an input function for the oscillating wave.

ONSTITUTION: When the IC card 11 is inserted into the card terminal 1, an acoustic wave transmitting part 27 transmits an ultrasonic wave signal. This signal is received by an acoustic wave receiving part 13 and applied to a CPU 31 through a rectifying circuit 33. The CPU 31 transmits an ultrasonic wave obtained by its internal oscillation circuit through an acoustic wave transmitting part 14. This signal is received by an acoustic wave receiving part 28 on the side of the card terminal 21. When the energy level of this signal is higher than a specific level, a contact probe 26 is driven downward to make a connection with the connection terminal 12 of the card 11. Consequently, adverse influence due to imperfection of the connection between the IC card and card terminal is eliminated.



## GAL STATUS

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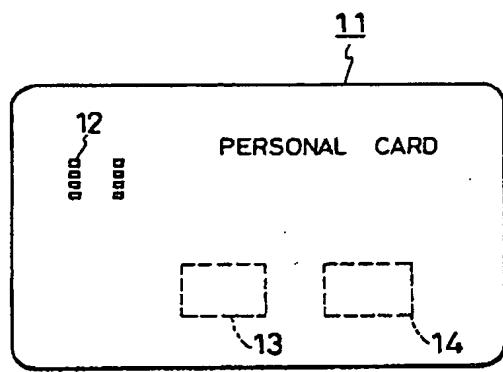
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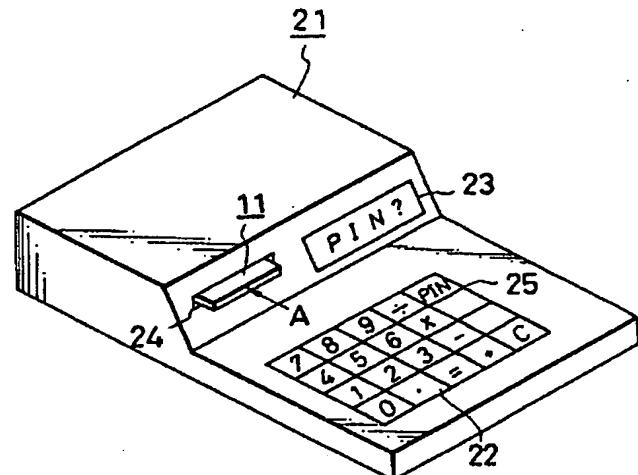
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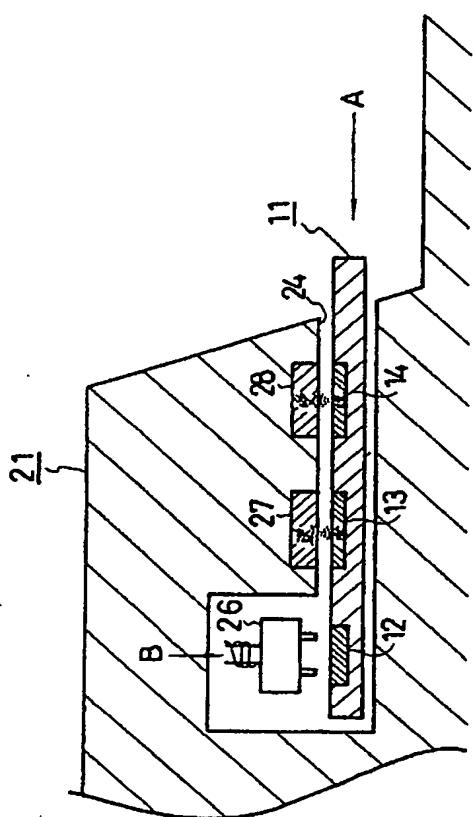
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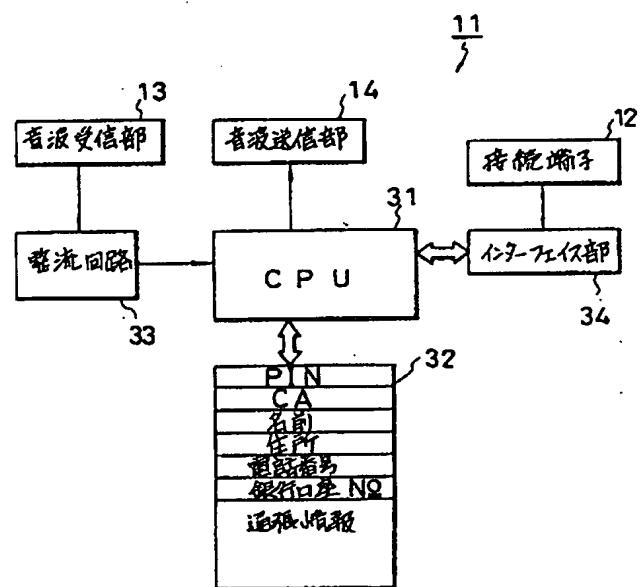
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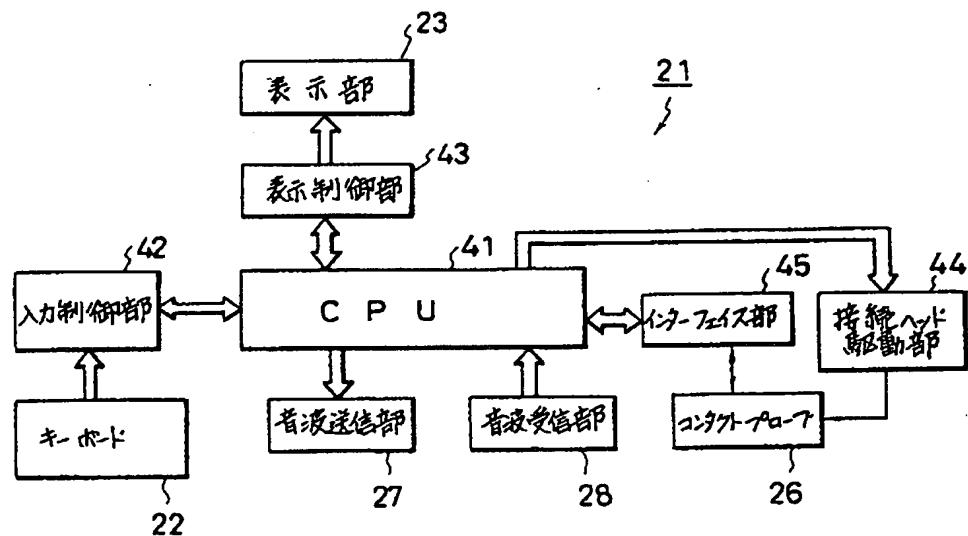
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第 4 図



第 5 図